

ABSTRACT

An object of the present invention is to provide at a low cost a light emitting device capable of emitting light not only in a visible light region, but also in an ultraviolet ray region and an infrared ray region with a high luminance and, further, capable of being reduced in size. According to the present invention, in the light emitting device (1) in which a light emitting electrode (4) and a cold cathode (3) are disposed opposite to each other, the light emitting electrode (4) is constituted by a metal oxide structure having whiskers (15) of a metal oxide. As for the metal oxide which constitutes the whiskers, it is preferable to use such metal oxide as has a band gap of from 1.5 to 7.7 eV. The light emitting electrode and the cold cathode are disposed within a vacuum chamber or a container having a base body sealed therein.